

Natural Resources Conservation Service Snow Survey and Water Supply Report

May 23, 2007



SNOTEL DATA AS OF May 14, 2007

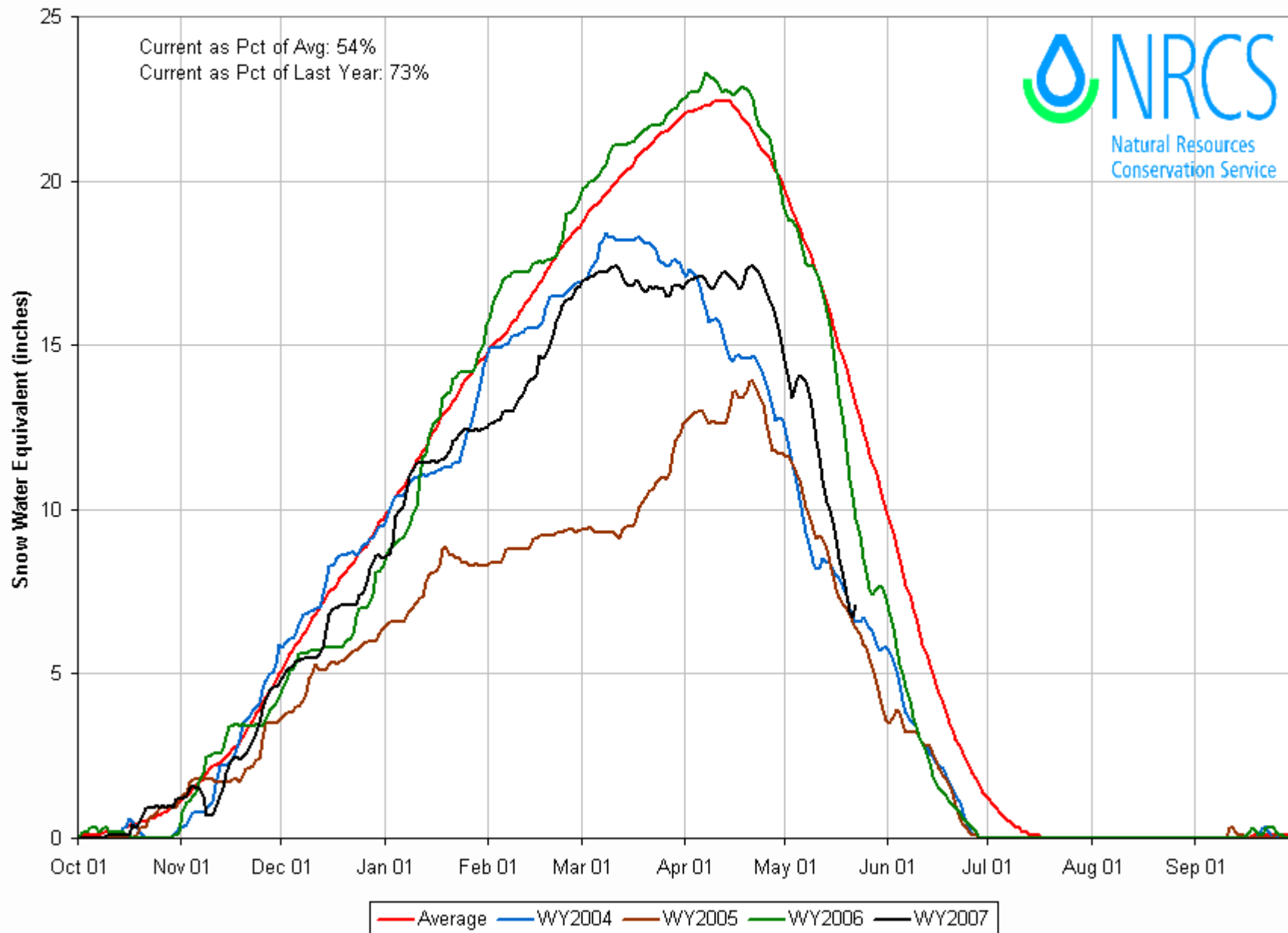
Date	Basin	This Year % of ave.	This Week versus Last Week	Last Year % of ave.	This Year as % of Last Year
5/14/2007	Kootenai	69%	-15%	104%	66%
	Flathead	75%	-8%	99%	76%
	Upper Clark Fork	59%	-20%	87%	68%
	Bitterroot	47%	-14%	91%	52%
	Lower Clark Fork	45%	-19%	91%	49%
	Jefferson	44%	-19%	80%	55%
	Madison	39%	-23%	97%	40%
	Gallatin	36%	-25%	83%	43%
	Missouri Headwaters	39%	-22%	86%	45%
	Headwaters Mainstem	30%	-27%	74%	41%
	Smith,Judith,Musselshell	33%	-31%	83%	40%
	Sun,Teton,Marias	46%	-14%	75%	61%
	Missouri Mainstem	38%	-22%	76%	50%
	St. Mary	81%	-3%	98%	82%
	Upper Yellowstone	41%	-18%	75%	55%
	Lower Yellowstone	51%	-25%	49%	104%
	State-wide	48%	-19%	84%	57%

SNOTEL DATA AS OF May 21, 2007

Date	Basin	This Year % of ave.	This Week versus Last Week	Last Year % of ave.	This Year as % of Last Year
5/21/2007	Kootenai	59%	-10%	90%	66%
	Flathead	70%	-5%	87%	80%
	Upper Clark Fork	42%	-17%	64%	66%
	Bitterroot	23%	-24%	76%	30%
	Lower Clark Fork	30%	-15%	67%	45%
	Jefferson	27%	-17%	61%	44%
	Madison	17%	-22%	78%	22%
	Gallatin	21%	-15%	65%	32%
	Missouri Headwaters	23%	-16%	67%	34%
	Headwaters Mainstem	10%	-20%	50%	20%
	Smith,Judith,Musselshell	12%	-21%	59%	20%
	Sun,Teton,Marias	30%	-16%	49%	61%
	Missouri Mainstem	20%	-18%	52%	38%
	St. Mary	76%	-4%	93%	82%
	Upper Yellowstone	27%	-14%	58%	47%
	Lower Yellowstone	29%	-22%	30%	97%
	State-wide	32%	-16%	65%	49%

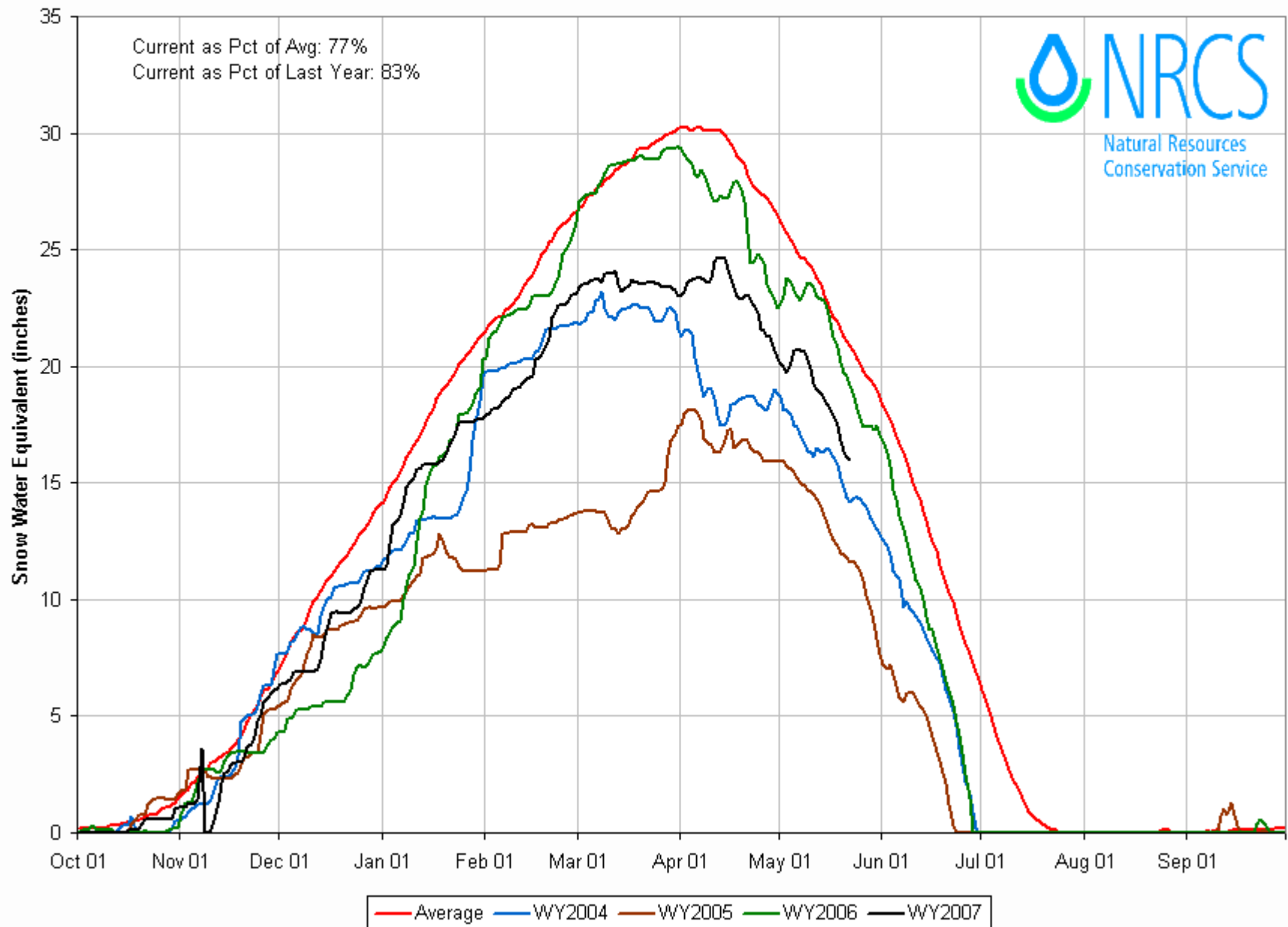
Columbia Basin Time Series Snowpack Summary

Based on Provisional SNOTEL data as of May 22, 2007



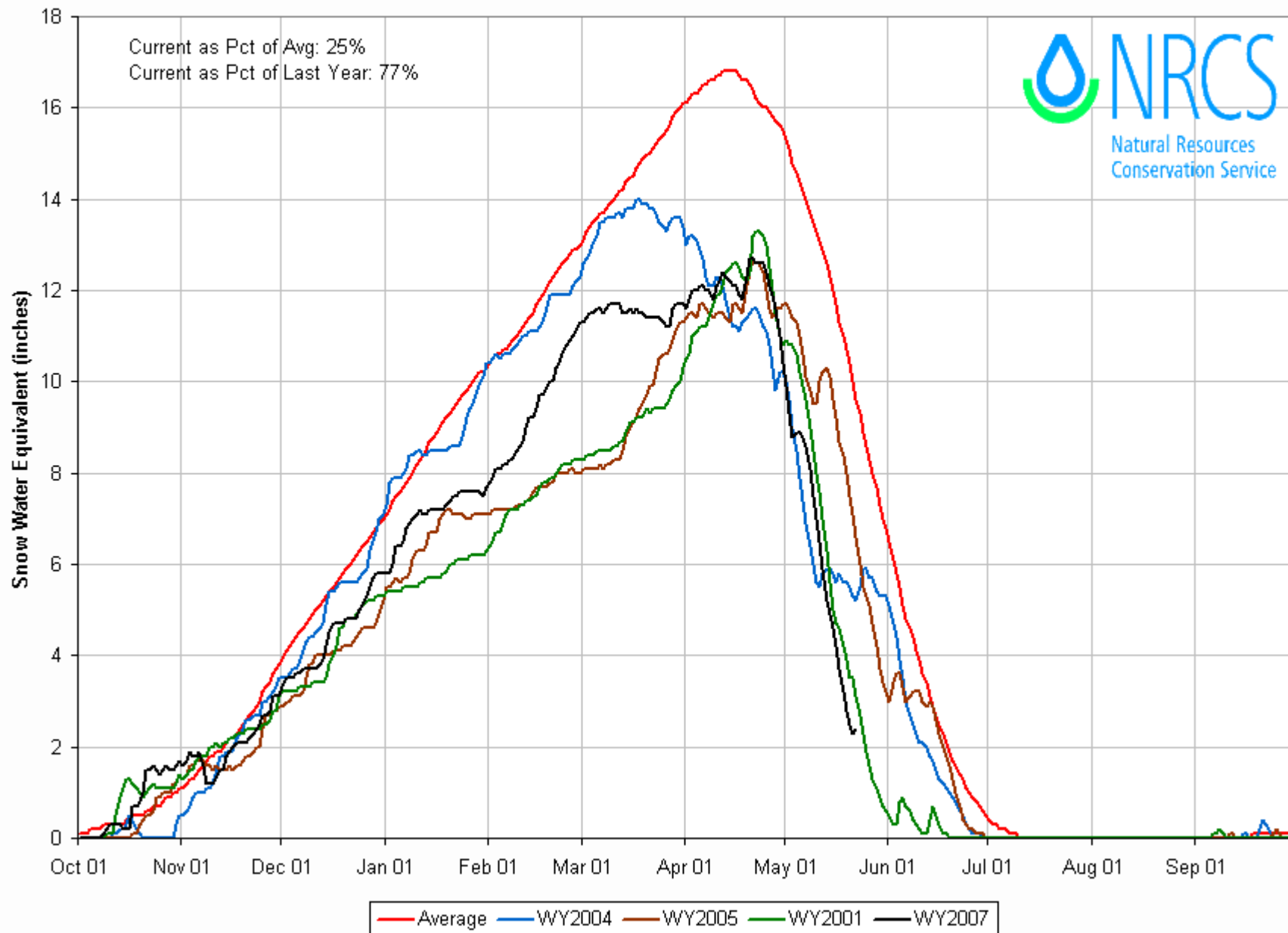
St. Mary Time Series Snowpack Summary

Based on Provisional SNOTEL data as of May 22, 2007



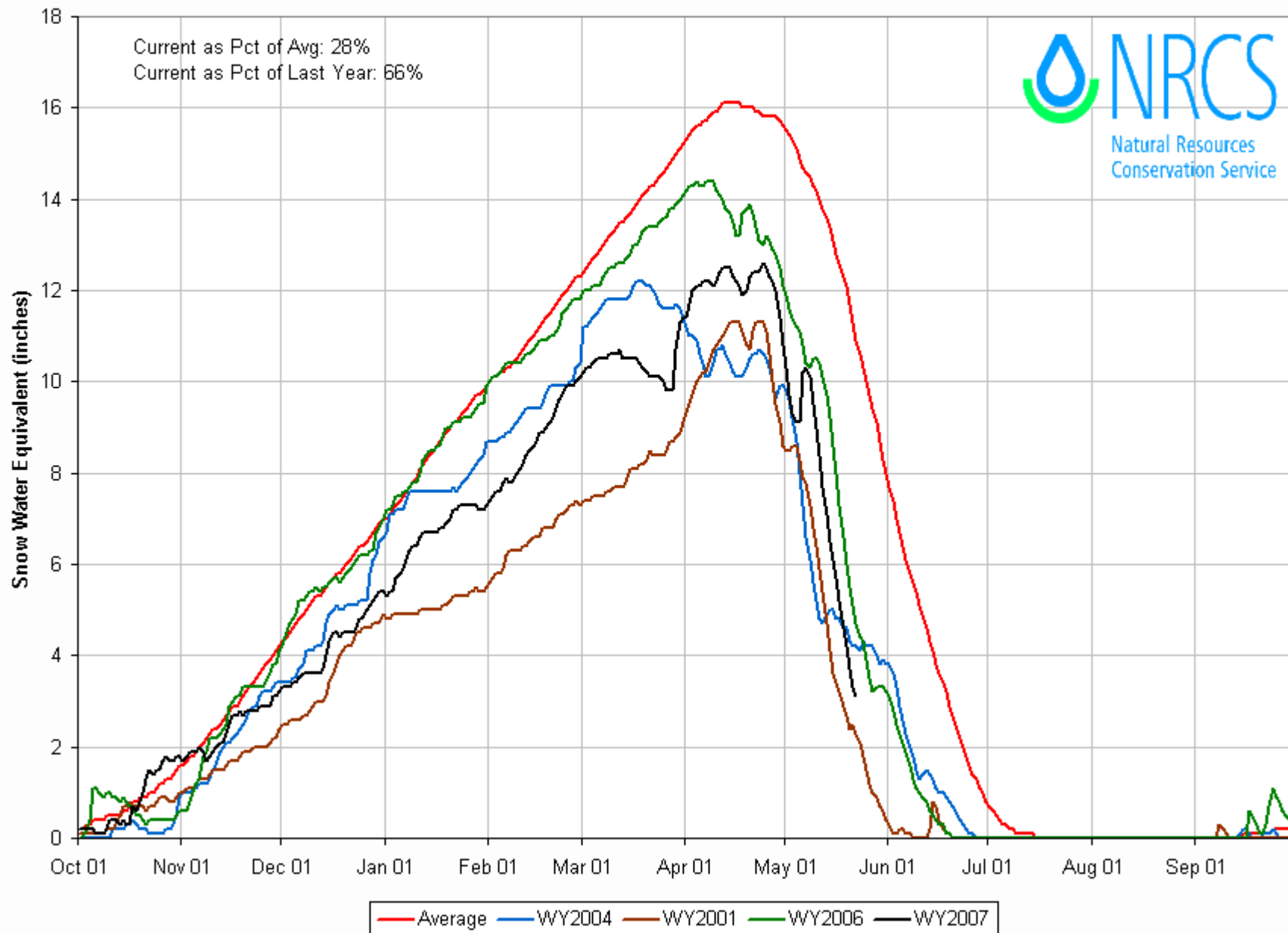
Missouri Basin Time Series Snowpack Summary

Based on Provisional SNOTEL data as of May 22, 2007



Yellowstone Basin Time Series Snowpack Summary

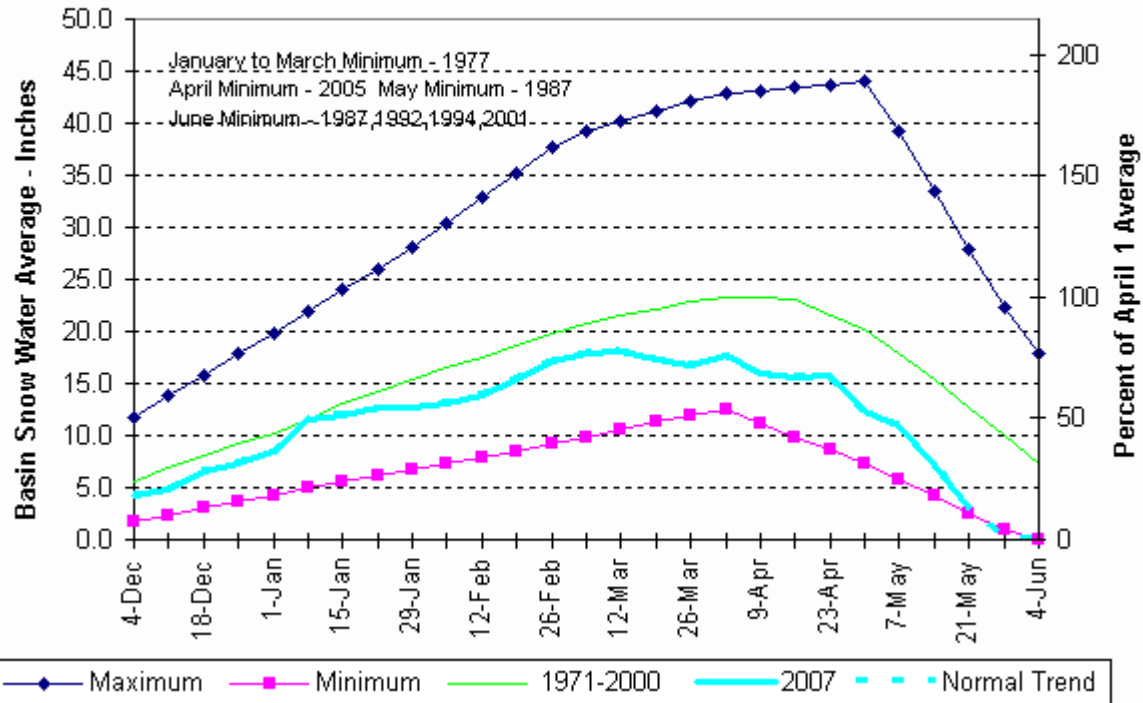
Based on Provisional SNOTEL data as of May 22, 2007



BITTERROOT RIVER BASIN

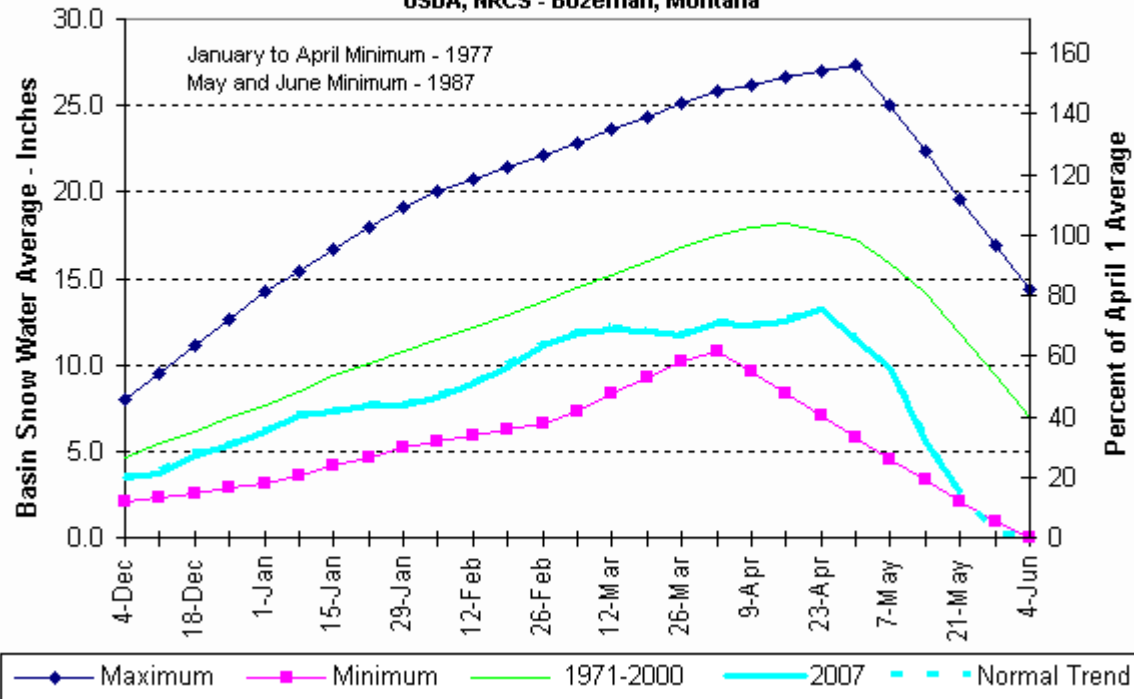
Based on provisional SNOTEL data - Subject to revision

USDA, NRCS - Bozeman, Montana



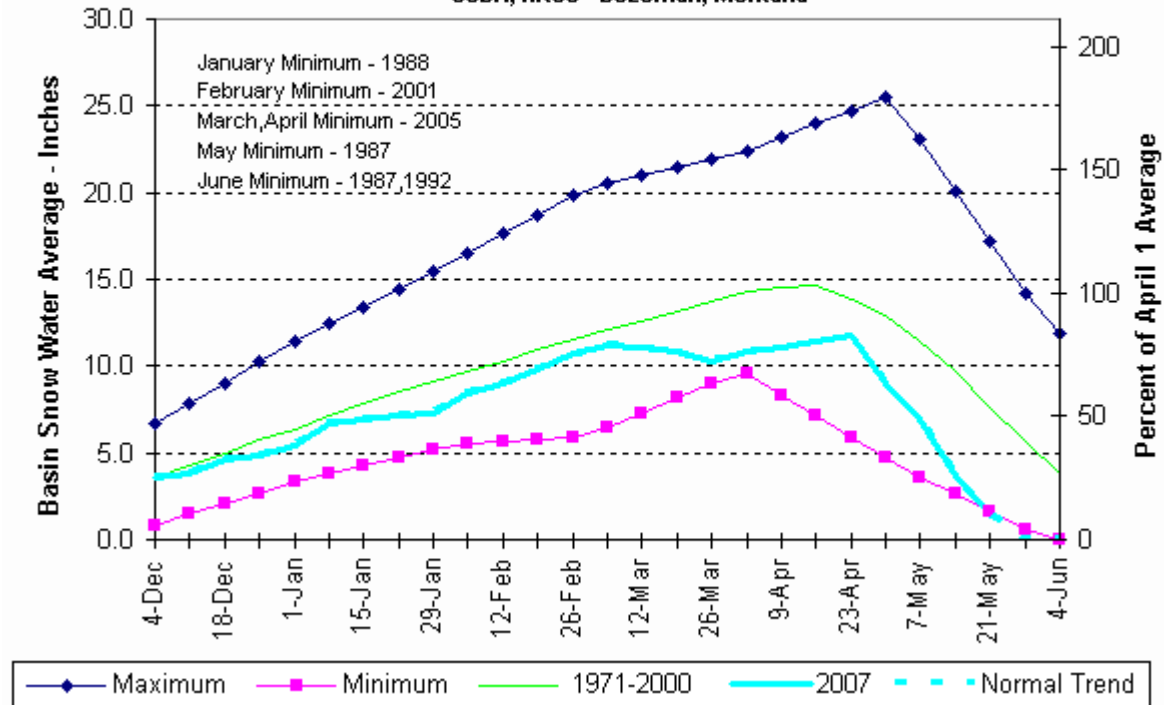
MISSOURI HEADWATERS

Based on provisional SNOTEL data - Subject to Revision
USDA, NRCS - Bozeman, Montana



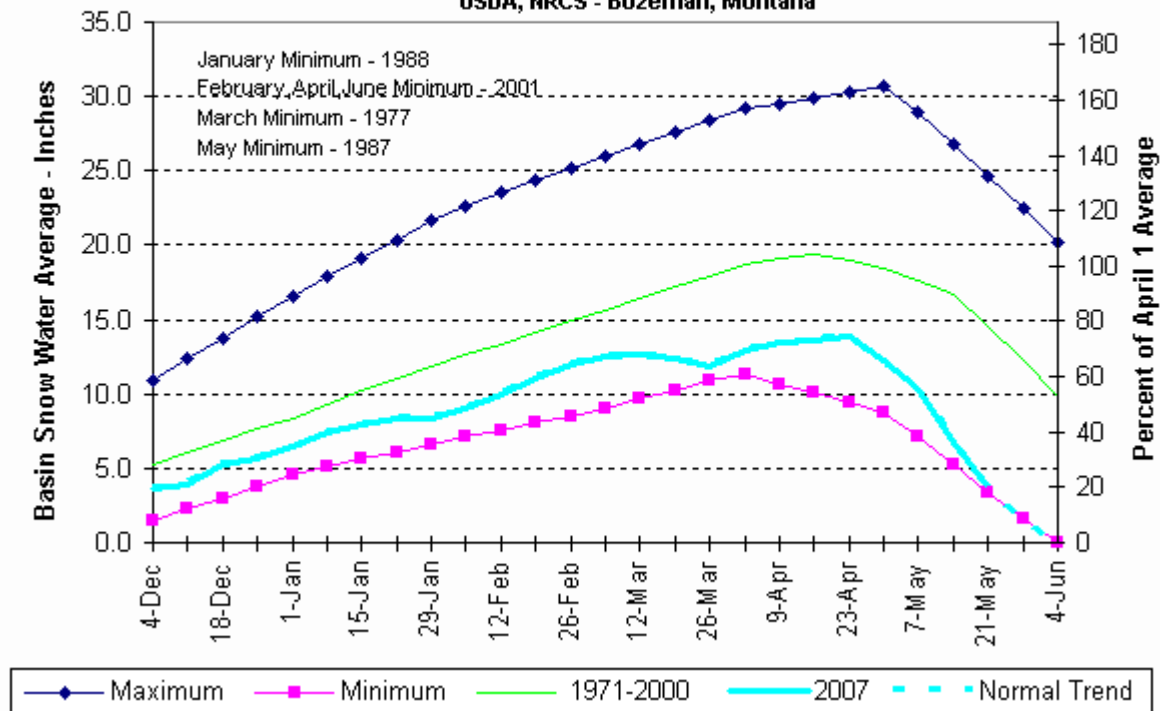
MISSOURI MAINSTEM RIVER BASIN

Based on provisional SNOTEL data - Subject to revision
USDA, NRCS - Bozeman, Montana



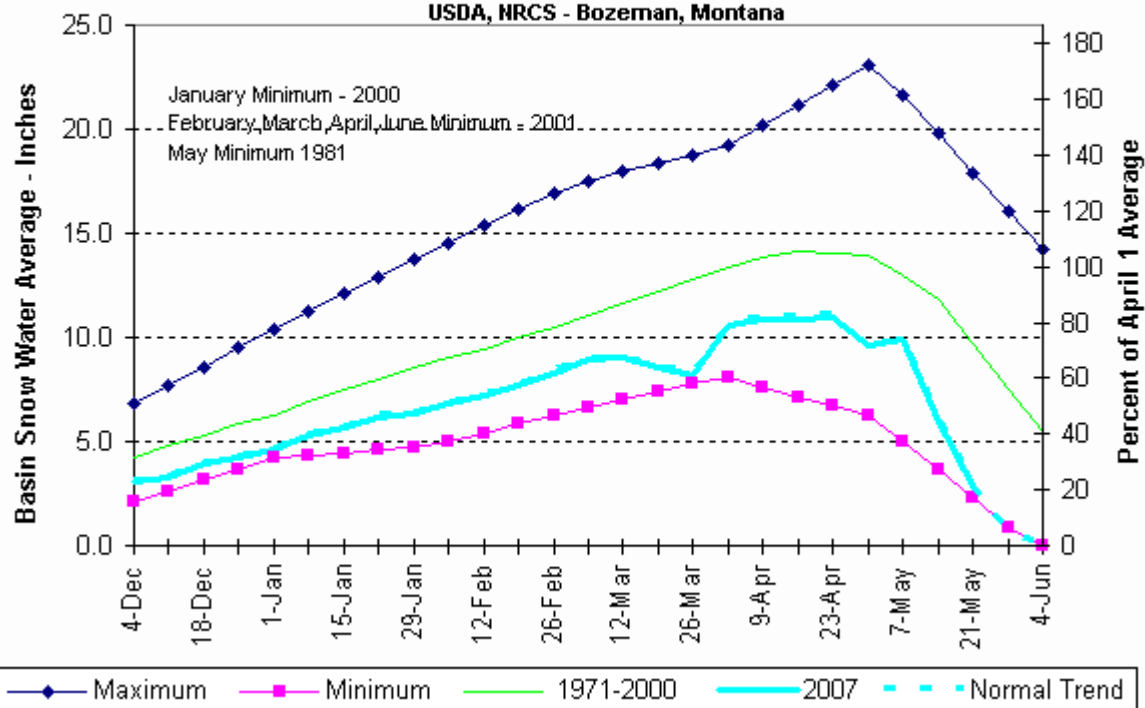
UPPER YELLOWSTONE RIVER BASIN

Based on provisional SNOTEL data - Subject to revision
USDA, NRCS - Bozeman, Montana

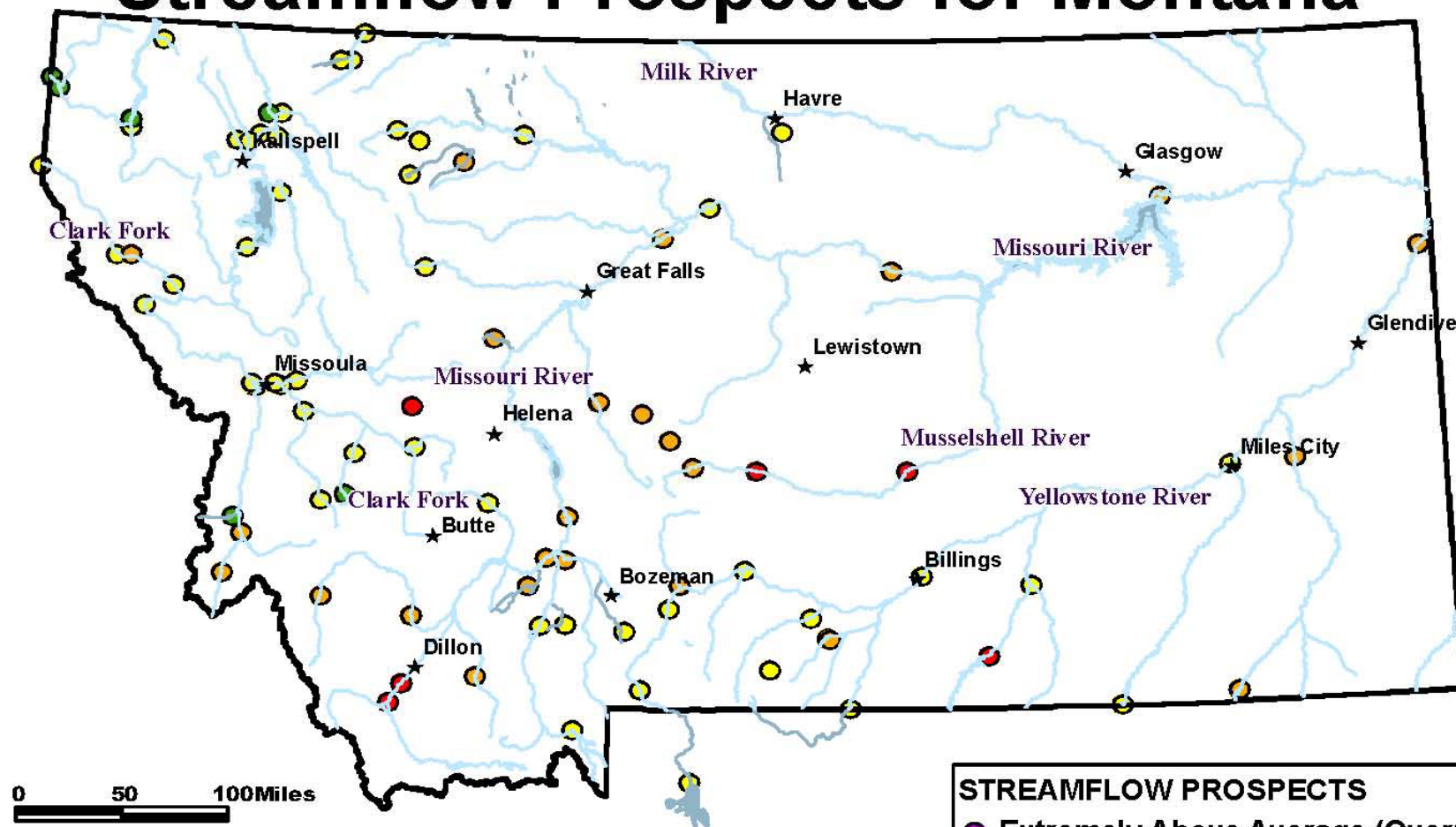


LOWER YELLOWSTONE RIVER BASIN

Based on provisional SNOTEL data - Subject to revision
USDA, NRCS - Bozeman, Montana



Streamflow Prospects for Montana



Current as of
May 1, 2007

Columbia – 72% to 81%
St. Mary – 82% to 88%
Missouri – 51% to 67%
Yellowstone – 63% to 75%

NOTE: Data used to generate
this map are **PROVISIONAL** and
SUBJECT TO CHANGE.

STREAMFLOW PROSPECTS

- Extremely Above Average (Over 150)
- Much Above Average (131 - 150)
- Above Average (111 - 130)
- Near Average (91 - 110)
- Below Average (71 - 90)
- Much Below Average (51 - 70)
- Extremely Below Average (Below 51)

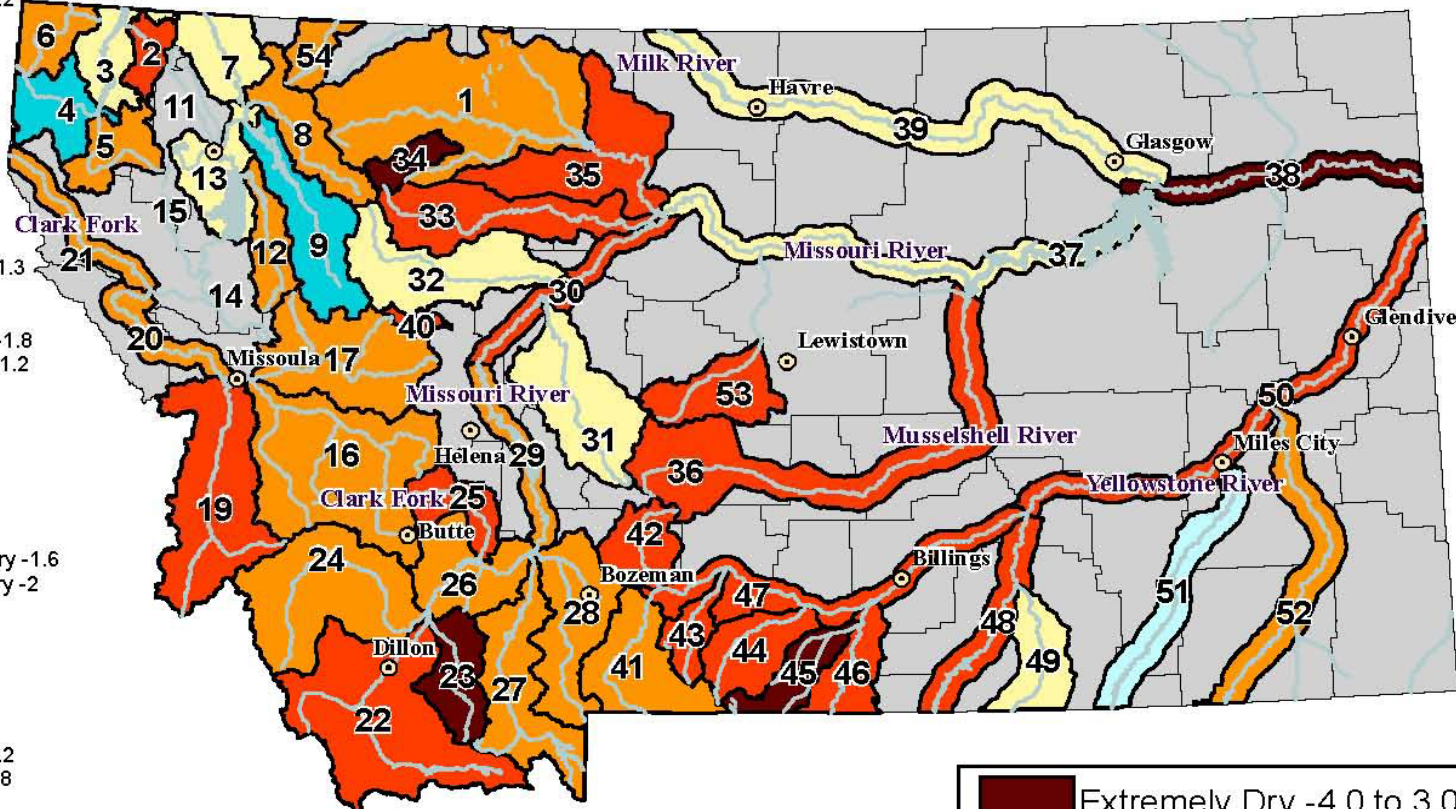
RIVER INDEX & SWSI VALUES

Surface Water Supply Index (SWSI) Values

UNITED STATES DEPARTMENT OF AGRICULTURE

NATURAL RESOURCES CONSERVATION SERVICE

- 1 Marias above Tiber Reservoir -1.8
- 2 Tobacco -2.3
- 3 Kootenai Ft. Steele to Libby Dam 0.7
- 4 Kootenai below Libby Dam 2.2
- 5 Fisher -1.8
- 6 Yaak -1.9
- 7 North FK. Flathead 0.6
- 8 Middle FK. Flathead -1.2
- 9 South FK. Flathead 2.3
- 11 Stillwater/Whitefish
- 12 Swan -1.5
- 13 Flathead at Polson -0.8
- 14 Mission Valley
- 15 Little Bitterroot
- 16 Clark Fork above Milltown -1.3
- 17 Blackfoot -1.7
- 19 Bitterroot -2.1
- 20 Clark Fork below Bitterroot -1.8
- 21 Clark Fork below Flathead -1.2
- 22 Beaverhead -2
- 23 Ruby -3.4
- 24 Big Hole -1.4
- 25 Boulder (Jefferson) -2.2
- 26 Jefferson -1.3
- 27 Madison -1.6
- 28 Gallatin -1.6
- 29 Missouri above Canyon Ferry -1.6
- 30 Missouri below Canyon Ferry -2
- 31 Smith -0.7
- 32 Sun -0.5
- 33 Teton -2.3
- 34 Birch/Dupuyer Creeks -3.5
- 35 Marias -2.6
- 36 Musselshell -2.9
- 37 Missouri above Fort Peck -0.2
- 38 Missouri below Fort Peck -3.8
- 39 Milk -0.3
- 40 Dearborn near Craig -2.6
- 41 Yellowstone above Livingston -1.9
- 42 Shields -2.6
- 43 Boulder (Yellowstone) -2.5
- 44 Stillwater -2.3
- 45 Rock/Red Lodge Creeks -3.5
- 46 Clarks Fork -2.1
- 47 Yellowstone above Bighorn -2.1
- 48 Bighorn below Bighorn Lake -2.1
- 49 Little Bighorn -0.1
- 50 Yellowstone below Bighorn -2.1
- 51 Tongue 1.8
- 52 Powder -1.5
- 53 Upper Judith River -2.4
- 54 Saint Mary River -1.1



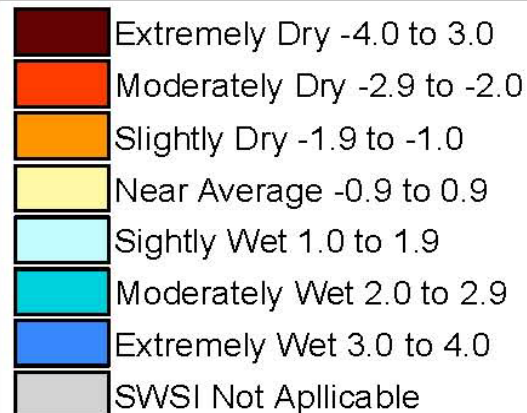
Current as of
May 1, 2007

0 45 90 Miles

NOTE: Data used to generate
this map are PROVISIONAL and
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NRCS Natural Resources
Conservation Service

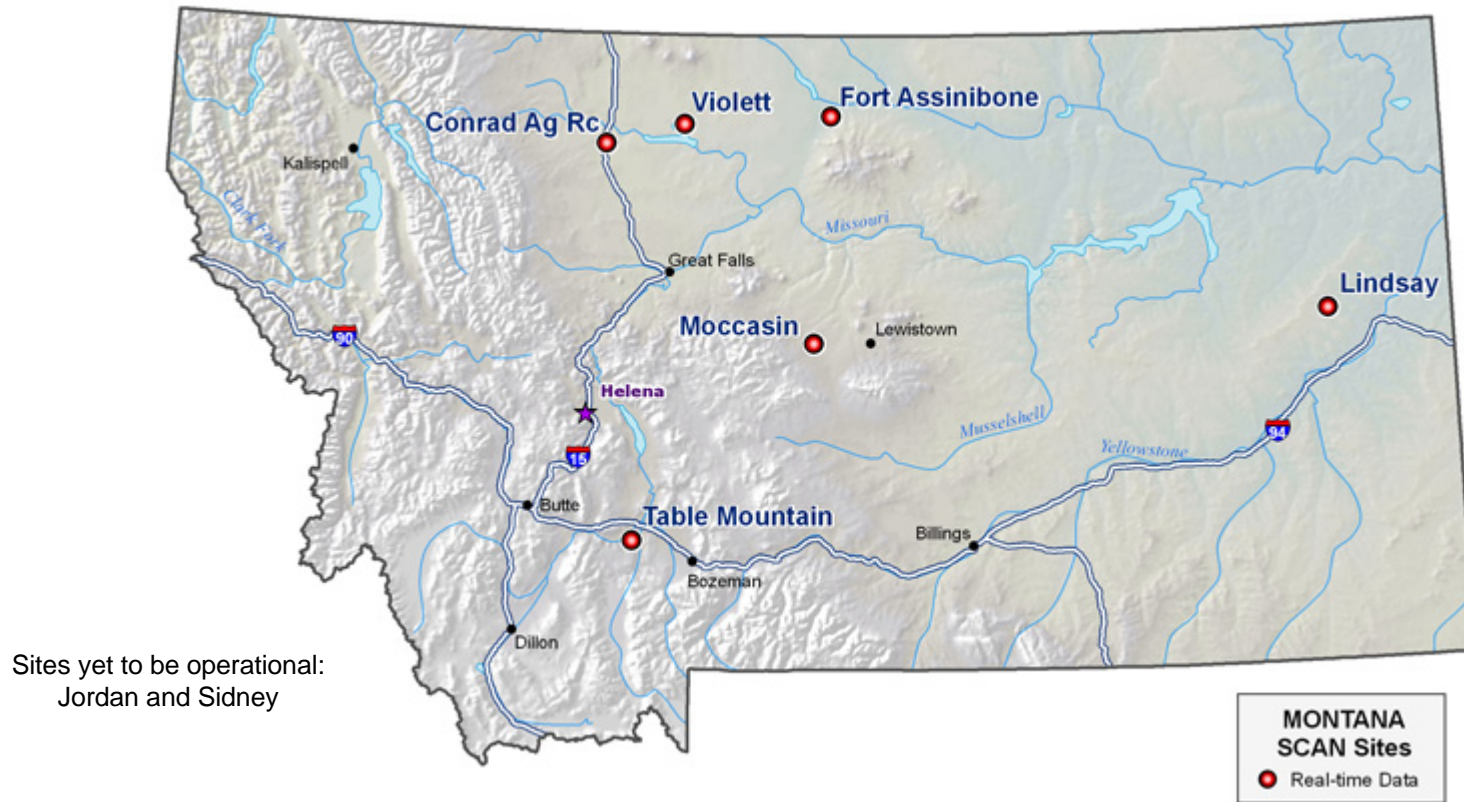
<http://www.mt.nrcs.usda.gov>



SUMMARY

- Snowpack, May 22 SNOTEL data, for the Columbia was 54% of average and 73% of last year; St. Mary was 77% of average and 83% of last year; Missouri was 25% of average and 77% of last year; and Yellowstone was 28% of average and 66% of last year.
- Several river basins are near to below previous record low May 21 snowpacks.
- Assuming near average rain May-July, spring and summer streamflows west of the divide are forecast to be below average and east of the divide are forecast to be well below average.
- Most streams and rivers west of the Divide have reached their snowmelt peak flows and east of the Divide most have reached or are near to reaching their snowmelt peak flows.

MONTANA SOIL CLIMATE ANALYSIS NETWORK (SCAN)



Web address for site data:

<http://www.wcc.nrcs.usda.gov/scan/Montana/montana.html>

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